DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD		TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
	)	
	•	111

EX

CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	HH H	MM MM MMM MMM MMMM MMMM MMMM MM MM MM MM	NN NN NN NN NN NN NNN NN NNNN NN NN NN N	\$	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	HH H	RRRRRRRR RRRRRRRR RR RR RR RR RR RR RRRRRR	•••
		\$						

1-001 - Original. DJS 04-Feb-1981. This module was created by

1-008 - Add a parameter to the split line routine. SMB 16-Nov-1982

! 1-009 - Change the parameter to split line routine. SMB 17-Nov-1982 ! 1-010 - Change the call to EDT\$\$MRK\_LNCHG. JBS 27-Dec-1982

1-002 - Regularize headers. JBS 02-Mar-1981

1-003 - Change SPLIT\_LINE to EDT\$\$SPLT\_LNINS .

1-004 - fix up some comments. JBS 02-Jun-1981 1-005 - Use new message codes. JBS 04-Aug-1981

1-006 - New screen update logic. JBS 13-Sep-1982 1-007 - Replace call to edt\$\$tst\_eob. \$TS 22-Sep-1982

extracting the routine INSERT\_CHARS from the module CHANGE.BLI.

JBS 30-Mar-1981

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16 17

18

19

22222222222233333333333444444

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56 57 0045

0046

0047

0048

0049

0050

0051

0052 0053

0054

0055

0057

Page

(1)

VÕ

EDTSCHMINSCHR V04-000	EDT\$CHMINSCHR - insert a string of characters	J 14 16-Sep-1984 00:01:27 14-Sep-1984 12:22:36	VAX-11 Bliss-32 V4.0-742	Page _2
V04-000	Declarations	14-Sep-1984 12:22:36	VAX-11 Bliss-32 V4.0-742 [EDT.SRC]CHMINSCHR.BLI;1	(2)
: 59	0058 1 %SBTTL 'Declarations'			
60 61 62	0060 1 TABLE OF CONTENTS:			
64	0062 1 0063 1 REQUIRE 'EDTSRC:TRAROUNAM';			
66	0503 1 FORWARD ROUTINE 0504 1 EDT\$\$INS_STR;	! Insert a str	ing of characters at the currer	nt position
59 612 6645 667 667 777 777 777 777 777 777 777 88 88 88 8	0058   %SBTTL 'Declarations' 0059   ! 0060   ! TABLE OF CONTENTS: 0061   ! 0062   1 0063   REQUIRE 'EDTSRC:TRAROUNAM'; 0502   1 0503   FORWARD ROUTINE 0504   EDT\$\$INS_STR; 0505   1 0506   1 ! 0507   ! INCLUDE FILES: 0508   1 ! 0509   1 0510   REQUIRE 'EDTSRC:EDTREQ'; 0645   1		•	·
72 73 74	0509 1 0510 1 REQUIRE 'EDTSRC:EDTREQ'; 0645 1			
75 76 77	0646 1   0647 1   MACROS: 0648 1   0649 1   NONE			
78	0649 1 NONE			
80 81	0650 1   0651 1   EQUATED SYMBOLS: 0652 1   0653 1   NONE 0654 1   0655 1   OWN STORAGE: 0656 1   NONE 0657 1   NONE 0658 1   0659 1   EXTERNAL REFERENCES:			t
: 82   : 83	0653 1 ! NONE 0654 1 !			
84	0655 1 OWN STORAGE:			
86	0657 1 ! NONE			
88	0659 1 EXTERNAL REFERENCES:			
<b>9</b> 0	0661 1! In the routine			

ED VO

```
K 14
                                                                                16-Sep-1984 00:01:27
14-Sep-1984 12:22:36
EDTSCHMINSCHR
                    EDT$CHMINSCHR - insert a string of characters
                                                                                                               VAX-11 Bliss-32 V4.0-742
                                                                                                                                                            Page
V04-000
                    EDT$$INS_STR - insert a string of characters
                                                                                                               [EDT.SRC]CHMINSCHR.BLI:1
                    0662
0663
                           1 %SBTTL 'EDT$$INS_STR - insert a string of characters'
                    0664
                              GLOBAL ROUTINE EDT$$INS_STR (
                                                                                             Insert a string of characters
     9Š
                                                                                             Address of string to insert
    96
97
                    0666
                                                                                            Length of string to insert
                    0667
                                   ) =
                    0668
                    0670
                                FUNCTIONAL DESCRIPTION:
   101
                    0671
   102
103
104
105
                    0672
0673
                                        Insert a string of characters at the current position in the text.
                    0674
                                FORMAL PARAMETERS:
                    0675
                    0676
0677
   106
                                                            a pointer to the string
   107
                                                            the length of the string
   108
                    0678
   109
                    0679
                                IMPLICIT INPUTS:
   110
                    0680
   111
                    0681
                                        EDT$$A_SEL_POS
EDT$$A_LN_END
   112
                                        EDTSSG_LN_LEN
EDTSSA_LN_PTR
   113
   114
   115
                                        EDT$$T_LN_BUF
                    0686
0687
   116
   117
                                IMPLICIT OUTPUTS:
   118
                    0688
   119
                    0689
                                        EDT$$A SEL POS
   120
121
123
124
127
128
129
131
133
133
138
139
                    0690
                                        EDT$$A_LN_PTR
                    0691
                   0692
0693
                                ROUTINE VALUE:
                    0694
                                        1 = success, 0 = error (line overflow)
                    0695
                    0696
                                SIDE EFFECTS:
                    0697
                    0698
                                        NONE
                    0699
                    0700
                          1
                    0701
                    0702
0703
                                   BEGIN
                    0704
                                   EXTERNAL ROUTINE
                                        EDT$$MSG_BELL : NOVALUE,
EDT$$MRK_LNCHG : NOVALUE,
                                                                                             Output a message to the terminal with a warning bell Track line updates
                    0705
                    0706
                                        EDT$$C$_UP,
EDT$$UPD_LNLEN : NOVALUE,
EDT$$SEL_RNGPOS,
EDT$$SPLT_LNINS : NOVALUE;
                    0707
                                                                                             Move up a line
                    0708
                                                                                             Update the length of the current line
                    0709
                                                                                             Compare the select line with the current line
   140
                    0710
                                                                                            Split a line of text at the current cursor position
   141
                    0711
                                  EXTERNAL

EDT$$A_SEL_POS,

EDT$$A_LN_END,

EDT$$G_LN_LEN,

EDT$$A_WK_LN : REF LIN_BLOCK,

EDT$$Z_EOB_LN,
   142
                    0712
                                                                                             select position.
   144
                    0714
                                                                                             End of current line pointer
                                                                                          ! Length of current line
                    0716
0717
   146
   147
                                        EDTSSA LN PTR,
   148
                    0718
                                                                                          ! Current character pointer
```

\* \*

```
L 14
16-Sep-1984 00:01:27
14-Sep-1984 12:22:36
EDTSCHMINSCHR
                  EDT$CHMINSCHR - insert a string of characters
                                                                                                       VAX-11 Bliss-32 V4.0-742
                                                                                                                                                  Page
                                                                                                                                                        (3)
V04-000
                  EDT$$INS_STR - insert a string of characters
                                                                                                       [EDT.SRC]CHMINSCHR.BLI:1
   150
151
153
155
156
156
159
                                     EDT$$T_LN_BUF;
                                                                                    ! Line buffer
                                 MESSAGES ((LINEXC255));
                              first make sure the line will not overflow.
                                 IF (.EDT$$G_LN_LEN + .L GTRU 255)
                                 THEN
                                     BEGIN
                                     EDT$$MSG_BELL (EDT$_LINEXC255);
   160
                                     RETURN (0);
   161
                                     END
   162
163
                                 ELSE
                                     BEGIN
   164
   165
                                     LOCAL
                                          OLD_LPOINT;
   166
   167
   168
   169
170
171
                             Check for the old EOB.
   172
173
174
175
176
177
                                     IF (.EDT$$A_WK_LN EQLA EDT$$Z_EOB_LN)
                                     THEN
                                          EDT$$SPLT_LNINS (0);
EDT$$CS_UP ();
                                                                                    ! Don't use optimizer
                                          END:
   178
   179
                            ! Compute the new cursor position.
   180
181
   182
183
184
185
186
187
                                     OLD_LPOINT = .EDT$$A_LN_PTR;
                                     EDTSSA_LN_PTR = CHSPEUS (.EDTSSA_LN_PTR, .L);
                              Open up a hole for the new characters.
                                     EDT$$CPY_MEM (CH$DIFF (.EDT$$A_LN_END, .OLD_LPOINT), .OLD_LPOINT, .EDT$$A_LN_PTR);
   188
                              And move them in.
   190
                                     EDT$$CPY_MEM (.L, .S, .OLD_LPOINT);
   192
193
                              Update the length of the line.
   194
   195
                                     EDT$$UPD_LNLEN (.L);
   196
197
                              Record the insertion for the screen updater.
   198
199
                                     EDT$$MRK_LNCHG (SCR_EDIT_MODIFY, .OLD_LPOINT - EDT$$T_LN_BUF);
   200
201
202
203
204
205
                              Update select range if necessary.
                                     IF (EDT$$SEL_RNGPOS () EQL 0)
                                     THEN
```

```
EDTSCHMINSCHR
                                                                                         16-Sep-1984 00:01:27
14-Sep-1984 12:22:36
                      EDT$CHMINSCHR - insert a string of characters
                                                                                                                            VAX-11 Bliss-32 V4.0-742
V04-000
                      EDT$$INS_STR - insert a string of characters
                                                                                                                                                                                      (3)
                                                                                                                            [EDT.SRC]CHMINSCHR.BLI:1
   206
207
208
209
210
211
213
214
215
                                  ! The current line is the select line.
                      0778
                      0779
                      0780
                                                   IF CH$PTR_LSS (.OLD_LPOINT, .EDT$$A_SEL_POS) THEN EDT$$A_SEL_POS = CH$PLUS (.EDT$$A_SEL_POS, .L)
                      0781
0782
0783
                                             RETURN (1):
                                             END:
                      0784
                                       END:
                                                                                                     ! of routine EDT$$INS STR
                                                                                                         .TITLE EDT$CHMINSCHR EDT$CHMINSCHR - insert a string o
                                                                                                                                       f characters
                                                                                                        .IDENT \V04-000\
                                                                                                                   EDT$$MSG_BELL, EDT$$MRK_LNCHG
EDT$$CS_UP, EDT$$UPD_LNEN
EDT$$SEL_RNGPOS
EDT$$SPLT_LNINS
EDT$$A_SEL_POS, EDT$$A_LN_END
EDT$$G_LN_EEN, EDT$$A_UK_EN
EDT$$Z_EOB_LN, EDT$$A_LN_PTR
EDT$$T_LN_BUF, EDT$_LINEXC255
                                                                                                         .EXTRN
                                                                                                         .EXTRN
                                                                                                         .EXTRN
                                                                                                         .EXTRN
                                                                                                         .EXTRN
                                                                                                        .EXTRN
                                                                                                        .EXTRN
                                                                                                         .EXTRN
                                                                                                         .PSECT
                                                                                                                    _EDT$CODE,NOWRT, SHR, PIC,2
                                                                             03FC 00000
                                                                                                         .ENTRY
                                                                                                                    EDT$$INS_STR, Save R2,R3,R4,R5,R6,R7,R8,R9
                                                                                                                                                                                     0664
                                                           0000000G
                                                                                9E 00002
9E 00009
                                                                                                                    EDT$$A_SEL_POS. R9
                                                                           00
                                                                                                        MOVAB
                                                                                                                   EDTSSA_LN_PTR, R8
                                                                           00
                                                           0000000G
                                                                                                        MOVAB
                                                                                    00010
                                                                                                                   L, R7
R7, EDT$$G_LN_LEN, R0
                                                                                DO
                                                                                                        MOVL
                                                                                                                                                                                     0726
                                   50 00000000G
                                                      00
                                                                                C1
                                                                                    00014
                                                                                                        ADDL3
                                       000000FF
                                                                                D1 0001C
                                                                          50
                                                                                                                    RO, #255
                                                                                                        CMPL
                                                                                    00023
                                                                           10
                                                                                1B
                                                                                                        BLEQU
                                                                                                                    15
                                                           0000000G
                                                                          8F
                                                                                DD 00025
                                                                                                        PUSHL
                                                                                                                    #EDT$_LINEXC255
                                                                                                                                                                                     0729
                                       0000000G
                                                                                    0002B
                                                                          01
                                                                                FB
                                                                                                        CALLS
                                                                                                                    #1, EDT$$MSG_BELL
                                                                          50
                                                                                D4
                                                                                    00032
                                                                                                        CLRL
                                                                                                                                                                                     0733
                                                                                04
                                                                                    00034
                                                                                                        RET
                                                       50 000000006
50 000000006
                                                                                9E
                                                                                    00035 15:
                                                                                                        MOVAB
                                                                                                                    EDT$$Z_EOB_LN, RO
                                                                                                                                                                                     0742
                                                                                                                   EDT$$A_WK_EN, RO
                                                                          00
                                                                                D1 0003C
                                                                                                        CMPL
                                                                          10700876817700501
                                                                                12 00043
04 00045
                                                                                                        BNEQ
                                                                                                                    -(SP)
                                                                                                                                                                                     0745
                                                                                                        CLRL
                                       0000000G
                                                                                FB 00047
                                                                                                        CALLS
                                                                                                                    #1, EDT$$SPLT_LNINS
                                                                                                                   #T, EDISSPLI LNINS
#O, EDISSCS UP
EDISSA LN PTR, OLD LPOINT
R7, EDISSA LN PTR
OLD LPOINT, EDISSA LN END, R1
EDISSA LN PTR, R0
R1, (OLD LPOINT), (R0)
R7, as, (OLD LPOINT)
                                                                                FB 0004E
D0 00055 2$:
                                       0000000G
                                                       00
                                                                                                        CALLS
                                                                                                                                                                                    0752
0753
                                                       56
                                                                                                        MOVL
                                                                                CQ
C3
                                                                                                        ADDL2
SUBL3
                                                                                    00058
                                   51 00000000G
                                                                                    0005B
                                                                                                                                                                                    0757
                                                                                00 00063
28 0006A
28 0006A
                                                       50
                                                                                                        MOVL
                                   60
                                                       66
                                                                                                        MOVC3
                                                04
                                                       BC
                                                                                                        MOVC3
                                                                                                                                                                                    0761
                                                                                DD
                                                                                    0006F
                                                                                                        PUSHL
                                                                                                                                                                                    0765
                                                                                                                   #1, EDT$$UPD_LNLEN
EDT$$T_LN_BUF, RO
RO, OLD_LPOINT, -(SP)
                                       0000000G
                                                                                FB
                                                                                    00071
                                                                                                        CALLS
                                                                                9<u>E</u>
                                                       50
56
                                                           0000000G
                                                                                                        MOVAB
                                                                                    00078
                                                                                                                                                                                    0769
                                   7E
                                                                                    0007F
                                                                                                        SUBL 3
                                                                                DD
                                                                                    00083
                                                                                                        PUSHL
```

FB

00085

FB 0008C

CALLS

CALLS

EDT\$\$MRK\_LNCHG

#0, EDT\$\$SEL\_RNGPOS

0000000G

0000000G

ED

EDTSCHMINSCHR V04-000	EDT\$CHMINSCHR - insert EDT\$\$INS_STR - insert	a string of a string of	characters characters	N 14 s 16-Sep-19 s 14-Sep-19	84 00:01 84 12:22	:27 VAX-11 Bliss-32 V4.0-742 :36 [EDT.SRC]CHMINSCHR.BLI;1	2age 6 (3)
		69 69 50	03 1E ( 57 CO ( 01 DO (	00093 00095 00097 0009A 0009C 0009F 3\$:	TSTL BNEQ CMPL BGEQU ADDL2 MOVL RET	RO 3\$ OLD_LPOINT, EDT\$\$A_SEL_POS 3\$ R7, EDT\$\$A_SEL_POS #1, RO	0780 0782 0785

; Routine Size: 163 bytes, Routine Base: \_EDT\$CODE + 0000

: 216 0786 1 : 217 0787 1 !<BLF/PAGE>

PSECT SUMMARY

Name Bytes Attributes
\_EDT\$CODE 163 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

## Library Statistics

File	Total	- Symbols Loaded	Percent	Pages Mapped	Processing Time	
_\$255\$DUA28:[EDT.SRC]EDT.L32;1	377	11	2	40	00:00.2	
_\$255\$DUA28:[EDT.SRC]PSECTS.L32;1	2		50	7	00:00.1	

## COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/NOTRACEBACK/LIS=LIS\$: CHMINSCHR/OBJ=OBJ\$: CHMINSCHR MSRC\$: CHMINSCHR.BLI/UPDATE=(ENH\$: CHMINSCHR)

Size: 163 code + 0 data bytes Run Time: 00:12.4

Run Time: 00:12.4 Elapsed Time: 00:14.3 Lines/CPU Min: 3816 Lexemes/CPU-Min: 11314

: Memory Used: 81 pages : Compilation Complete 0131 AH-BT13A-SE

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